

CLAIM LISTING

Applicants request that, pursuant to this amendment, the following listing of claims replace all prior versions and listings of claims in the instant application.

Listing of Claims:

1. – 6. (Cancelled)

7. (Previously Presented) Within a gateway interface, a method of call control between a mobile network and a wireless network comprising:

establishing, with a mobile switching center of said mobile network, a control messaging link for exchanging mobile control channel signaling data, and a voice channel link for exchanging audio data for a mobile call, wherein said gateway appears as an additional mobile data base station of the mobile network to the mobile switching network;

establishing a communications link with a packet-switched network;

receiving a SIP invite from a mobile device over the packet-switched network indicating that the mobile device will lower a transmit signal power to produce weakened signals to trigger a hand-off from the mobile network to the wireless network;

sending a heightened signal strength indicator to the mobile data base station currently handling the mobile call responsive to receiving the SIP invite for prompting the mobile switching center to recognize the gateway as a preferred path for handing off the mobile call; and

routing the mobile call from said mobile data base station to a wireless access point via the packet-switched network, such that the call is conducted via a wireless communications link using the wireless access point.

8. (Original) The method of claim 7, wherein the signal strength indicator is fabricated.

9. (Original) The method of claim 7, said routing step comprising routing the mobile call to the wireless access point via the packet-switched network using Session Initiation Protocol.

10. (Original) The method of claim 7, wherein the wireless access point is an 802.11 compliant wireless access point and the wireless network is configured according to one of the 802.11 wireless communications protocols.

11. – 18. (Cancelled)

19. (Previously Presented) A method for mobile device handoff between a mobile network and a wireless network comprising:

on a mobile device, detecting a wireless access point of the wireless network;

on said mobile device, sending a SIP invite to a gateway informing the gateway that the mobile device will lower a transmit signal power to produce weakened signals to trigger a hand-off from the mobile network to the wireless network, and lowering a transmission power to a mobile data base station of said mobile network currently handling communications with said mobile device;

on said mobile network, a mobile switching center detecting a lower power signal from said mobile device and identifying at least one mobile data base station of the mobile network available to handle communication with said mobile device, wherein a gateway serving as an interface between the mobile network and the wireless network is configured to appear as an additional data base station of the mobile network; and

on a gateway associated with said wireless network, having previously received the SIP invite message informing the gateway that the mobile device will lower a transmit signal power to produce weakened signals, indicating to said mobile switching center that a heightened signal strength has been received from the mobile

communication device for prompting the mobile switching center to handoff communications with said mobile device to said gateway for providing connectivity between said mobile switching center said mobile device through said wireless access point, wherein said heightened signal strength is not indicative of actual signal strength of said mobile device.

20. (Previously Presented) The method of claim 19, further comprising
on said mobile device, sending the SIP invite through a wireless network to a SIP server;

on said gateway, forwarding said SIP invite to said SIP server via Internet; and
authenticating a SIP user agent on said mobile device.

21. (Previously Presented) The method of claim 20, further comprising:
upon authenticating said SIP user agent, setting up an internet protocol (IP) streaming session between said gateway and mobile device;

switching over from said mobile data base station currently handling communications with said mobile device to said gateway; and

tearing down communications between said mobile network and said mobile device, for handing off said mobile device from a mobile network to a wireless network.